

Checklist for New Service Connection Drawing & Plumbing Drawing (Water & Sanitary)

The Chatham-Kent Public Utilities Commission (CK PUC) requires a servicing drawing/ detailed sketch to be submitted for review for all new water and sanitary service connections on commercial, industrial, institutional, agricultural, greenhouse, multi-residential apartment building and townhouse developments. A New Service Connection Permit will not be issued by CK PUC until these drawings are accepted by CK PUC and the applicable permit fees have been paid.

The CK PUC Water and Sanitary Sewer Design Manual and Chatham-Kent Design Standards Manual shall be followed for all requirements for new service connections. It is the consultant/developer/owner's responsibility to ensure their design follows all applicable standards. The intent of the CK PUC review is only to ensure general conformance with the CK PUC standard details and design requirements.

Below is a checklist of the minimum CK PUC requirements that are to be included in the servicing and plumbing drawings. Please ensure all applicable components on this checklist are included in your drawings prior to submitting to CK PUC for review. **If the answer to any of the items below is "No", the drawings may be rejected without being reviewed.** This checklist and drawings can be submitted with the New Service Connection Application form to ckpuc@chatham-kent.ca.

Checklist for New Service Connection Drawing:

Water Servicing:

- | | |
|---|---|
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Is there only one water service shown to be used for the property? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Are any existing water services not to be used shown to be capped back at the watermain? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Is the water service connection shown from the main to the building including the service size and material? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Are the domestic and fire water service split before the property line? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Is there a water shut off valve (curb stop) located at the property line on the fire and domestic service? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | For commercial, industrial, institutional, greenhouse and agricultural properties, is the water meter pit shown just inside the private property line on the domestic service, including the Windsor Utility Commission detail number for the meter pit chosen? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | If the service line splits to multiple buildings, is a shut off valve included on each branch just after the split? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | If a water valve is located before the service enters the building, is it a minimum 3m away from the building face? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Is there a dedicated backflow preventer shown/noted inside each building or structure where both the fire and domestic service enter the building(s)? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Are the connection details and installation method included on the drawing, ie. tap or tee connection, directional drill, etc.? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Is there a minimum 2.5m separation between water and wastewater services? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Have you verified that there are no conflicts with the location of the new service, meter pit, or valves ie. other utilities, driveways, etc.? |

Sanitary Servicing:

- | | | | |
|------------------------------|-----------------------------|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Is there only one sanitary service shown to be used for the property? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Are any existing sanitary services not to be used shown to be capped back at the sanitary main? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Is the sanitary service connection shown from the main to the building including the service size and material? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | For all commercial, industrial, institutional, and greenhouse properties, is there a sanitary manhole shown to be installed at the property line? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | For residential and agricultural properties, is there a sanitary cleanout shown to be installed at the property line? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Are the connection details and installation method included on the drawing, ie. tee connection, open cut installation, etc.? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Is there a minimum 2.5m separation between water and wastewater services? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Is there a minimum 0.5m vertical distance between any water and wastewater service crossings? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Have you verified that there are no conflicts with the location of the new service, manhole or cleanout ie. other utilities, etc.? |

Checklist for Plumbing & Sprinkler Drawings:

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|------------------------------|-----------------------------|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | For commercial, industrial, institutional, greenhouse and agricultural properties, is a backflow preventer shown as soon as the domestic and fire water service enter the building? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | For residential properties, is the water meter and backflow preventer shown inside the building as soon as the domestic service enters the building and backflow shown on the fire service? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | Is there no water bypass line around the water meter? (Water bypass lines are not permitted unless approved by CK PUC for critical operations and require a locking valve that is only accessible by Entegrus) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | If the water service is 3" or greater, is a strainer shown on the service before the meter with the part number included? (Strainers are to be provided by the owner/developer. Only Neptune strainers are to be used; no alternatives are permitted. Permitted Neptune part numbers are 53107-000 for a 3" strainer, 53107-100 for a 4" strainer, 52000-201 for a 6" strainer, 52000-304 for an 8" strainer, 52000-402 for a 10" strainer.) |

If you have questions about the type of backflow preventer required for your property, please reach out to backflow@chatham-kent.ca. **This review of the servicing and plumbing drawing is just to confirm the presence of a backflow preventer. It is up to the owner/developer/consultant to determine the correct type and submit the appropriate documentation to backflow@chatham-kent.ca.**

Please note this is a summary of the minimum requirements for CK PUC review. Chatham-Kent Engineering department has additional requirements for servicing drawings submitted as part of a Site Plan Application and for storm water. Please contact ckengineering@chatham-kent.ca if you have questions.